

## Ris #1

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- Gravity **23.1 BLG**
- ABV **10.5 %**
- IBU **57**
- SRM **35.2**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **120 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **33 liter(s)**
- Total mash volume **44 liter(s)**

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3 kg (27.3%)	80 %	5
Grain	Strzegom Monachijski typ II	2 kg (18.2%)	79 %	22
Grain	Pszeniczny	2 kg (18.2%)	85 %	4
Grain	Karmelowy Pszeniczny Strzegom	0.5 kg (4.5%)	79 %	130
Grain	cararoma	0.5 kg (4.5%)	--- %	---
Grain	Płatki owsiane	2 kg (18.2%)	85 %	3
Grain	Strzegom Czekoladowy jasny	0.5 kg (4.5%)	68 %	400
Grain	Jęczmień palony	0.5 kg (4.5%)	55 %	985

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnat	50 g	60 min	11.2 %
Boil	Perle	50 g	60 min	7 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM52 Amerykański Sen	Ale	Liquid	300 ml	Fermentum Mobile